## **AMENDMENTS TO THE CLAIMS**

## What is claimed is:

## What is claimed is:

1. (Currently Amended) A compound of the formula

$$R-NH-Q$$
 (I)

### wherein

Q is a radical in which R<sub>3</sub> is hydrogen, halogen, alkyl, cycloalkyl, aryl, alkoxy, cycloalkexy, arylexy, alkylthio, cycloalkylthio, arylthio, acyl, sulfonyl, alkylamino, cycloalkylamino, arylamino, acylamino, sulfonamido or alkoxycarbonyl; Y is CH or nitrogen; and

R is a radical of the formula

#### wherein

R<sub>4</sub> is C<sub>2-4</sub>alkyl, C<sub>3-7</sub>cycloalkyl or C<sub>5-7</sub>heterocycloalkyl;

 $R_5$  and  $R_6$  are independently hydrogen, halogen, cyano,  $R_7$ , -C(O) $R_7$  or -S(O) $_2R_7$  wherein  $R_7$  is -(CR $_8R_9$ ) $_m$ -W-R $_{10}$  in which

R<sub>8</sub> and R<sub>9</sub> are independently hydrogen or lower alkyl;

W is a bond, O, S or NR,4 in which

Ru is hydrogen or bwer alkyl;

R<sub>10</sub> is hydrogen, alkyl, cycloalkyl, aryl or heterocyclyl; or R<sub>10</sub>-and R<sub>11</sub>, combined, are alkylene which together with the nitrogen atom to which they are attached form a 5- to 7-membered ring:

m is zero or an integer from 1 to 5;

n is zero or an integer of 1 or 2;

or an optical isomer thereof; or a pharmaceutically acceptable salt thereof; or

(ii) Q is a radical in which R₃ is hydrogen, halogen, alkyl, cycloalkyl, aryl, alkoxy, cycloalkoxy, aryloxy, alkylthio, cycloalkylthio, arylthio, acyl, sulfonyl, alkylamino, cycloalkylamino, arylamino, acylamino, sulfonamido or alkoxycarbonyl; and

R is a radical of the formula

wherein

R<sub>4</sub> is C<sub>2-4</sub>alkyl, C<sub>3-7</sub>cycloalkyl or C<sub>5-7</sub>heterocycloalkyl;

 $R_5$  and  $R_6$  are independently hydrogen, halogen, cyano,  $R_7$ , -C(O) $R_7$  or -S(O) $_2R_7$  wherein  $R_7$  is -(CR $_8R_9$ ) $_{m}$ -W-R $_{10}$  in which

R<sub>8</sub> and R<sub>9</sub> are independently hydrogen or lower alkyl;

W is a bond, O, S or NR,, in which

R<sub>++</sub> is hydrogen or bwer alkyl;

R<sub>10</sub> is hydrogen, alkyl, cycloalkyl, aryl or heterocyclyl; or R<sub>10</sub> and R<sub>14</sub>, combined, are alkylene which together with the nitrogen atom to which they are attached form a 5- to 7-membered ring;

m is zero or an integer from 1 to 5;

n is zero or an integer of 1 or 2;

or an optical isomer thereof; or a pharmaceutically acceptable salt thereof; or

(iii) Q is a

radical in which R3 is hydrogen, halogen, alkyl, cycloalkyl, aryl,

alkoxy, cycloalkoxy, aryloxy, alkylthio, cycloalkylthio, arylthio, acyl, sulfonyl, alkylamino, cycloalkylamino, arylamino, acylamino, sulfonamido or alkoxycarbonyl; and

R is a radical of the formula

wherein

R4 is C24alkyl, C37cycloalkyl or C57heterocycloalkyl;

R<sub>s</sub>-and R<sub>s</sub>-are independently hydrogen, halogen, cyano, R<sub>z</sub>, -C(O)R<sub>z</sub> or -S(O)₂R<sub>z</sub> wherein R<sub>z</sub> is -(CR<sub>s</sub>R<sub>s</sub>)<sub>m</sub>-W-R<sub>10</sub> in which

Rs-and-Rs-are-independently-hydrogen or lower-alkyl;

W is a bond, O, S or NR, in which

R<sub>1.1</sub> is hydrogen or bwer alkyl;

R<sub>10</sub> is hydrogen, alkyl, cycloalkyl, aryl or heterocyclyl; or R<sub>10</sub>-and-R<sub>11</sub>, combined, are alkylene which together with the nitrogen atom to which they are attached form a 5- to 7-membered ring;

m is zero or an integer from 1 to 5;

n is zero or an integer of 1 or 2;

provided that: (1)  $R_6$ -and  $R_6$ -are not halogen when n is zero; or (2)  $R_5$ -is not  $-S(O)_2R_7$ , wherein  $R_7$ -is  $-(CR_8R_9)_m$ -W-R<sub>10</sub> in which m is zero, W is a bond and  $R_{10}$  is  $C_{4-3}$ alkyl-when n is zero;

or an optical isomer thereof; or a pharmaceutically-acceptable salt-thereof; or

R is a radical of the formula

wherein

Rais-Caalkyl, Cazeveloalkyl or Cszheterocycloalkyl;

R<sub>12</sub>-and-R<sub>13</sub>-are independently hydrogen, halogen, cyano, R<sub>14</sub>, -C(O)R<sub>14</sub>, or -S(O)<sub>2</sub>R<sub>14</sub> wherein

R<sub>14</sub>-is-(CR<sub>8</sub>R<sub>9</sub>)<sub>m</sub>-W-R<sub>15</sub>-in-which

R<sub>8</sub>-and R<sub>9</sub>-are independently hydrogen or lower alkyl;

Wis-a-bond, O, S or-NR11 in which

R<sub>11</sub> is hydrogen or bwer alkyl;

R<sub>15</sub> is cycloalkyl, aryl-or heterocyclyl; or R<sub>15</sub> and R<sub>14</sub>, combined, are alkylene which together with the nitrogen atom to which they are attached form a 5—to 7–membered ring;

## m is zero or an integer from 1 to 5;

n is zero or an integer of 1 or 2;

provided that: (1)  $R_{12}$  and  $R_{13}$  both are not hydrogen, halogen, cyano or combinations thereof; (2)  $R_{12}$  is not  $-S(O)_2R_{14}$ , wherein  $R_{14}$  is  $-(CR_8R_9)_m$ -W-R<sub>15</sub> in which m is zero and W is a bond when n is zero; (3)  $R_{12}$  is not  $-S(O)_2R_{14}$ , wherein  $R_{14}$  is  $-(CR_8R_9)_m$ -W-R<sub>15</sub> in which  $R_8$  and  $R_9$  are hydrogen, m is 1 and W is a bond when n is zero; (4)  $R_{12}$  is not  $R_{14}$ , wherein  $R_{14}$  is  $-(CR_8R_9)_m$ -W-R<sub>15</sub> in which m is zero and W is O when n is zero; or (5)  $R_{12}$  is not  $R_{147}$  wherein  $R_{14}$  is  $-(CR_8R_9)_m$ -W-R<sub>15</sub> in which m is zero and W is a bond when n is zero; or an optical isomer thereof; or a pharmaceutically acceptable salt thereof.

## 2-3. (Cancelled)

(Currently Amended) A compound according to Claim 1 of the formula

$$R_8$$
 (CH<sub>2</sub>)<sub>n</sub>  $R_4$  (Ib)

wherein

R<sub>3</sub> is hydrogen, halogen, alkyl, cycloalkyl, aryl, alkoxy, cycloalkoxy, aryloxy, alkylthio, cycloalkylthio, arylthio, acyl, sulfonyl, alkylamino, cycloalkylamino, arylamino, acylamino, sulfonamido or alkoxycarbonyl;

R<sub>4</sub> is C<sub>2-4</sub>alkyl, C<sub>3-7</sub>cycloalkyl or C<sub>5-7</sub>heterocycloalkyl;

 $R_5$  and  $R_6$  are independently hydrogen, halogen, cyano,  $R_7$ ,  $-C(O)R_7$  or  $-S(O)_2R_7$  wherein  $R_7$  is  $-(CR_8R_9)_m$ -W-R<sub>10</sub> in which

R<sub>8</sub> and R<sub>9</sub> are, independently, hydrogen or lower alkyl;

W is a bond, O, S or -NR<sub>14</sub> in which R<sub>14</sub> is hydrogen or lower alkyl;

R<sub>10</sub> is hydrogen, alkyl, cycloalkyl, aryl or heterocyclyl; or R<sub>10</sub>-and R<sub>11</sub>, combined, are alkylene which together with the nitrogen atom to which they are attached form a 5- to 7-membered ring;

m is zero or an integer from 1 to 5;

Y is CH-or nitrogen;

n is zero or an integer of 1 or 2;

or an optical isomer thereof; or a pharmaceutically acceptable salt thereof.

Application No. 10/529,670 Attorney Docket No. PC/4-32711A

 (Original) A compound according to Claim 4, wherein R<sub>4</sub> is cyclopentyl;

n is zero;

or an optical isomer thereof; or a pharmaceutically acceptable salt thereof.

6. (Currently Amended) A compound according to Claim 1 of the formula

$$R_6$$
 (CH<sub>2</sub>)  $N$   $N$  (Ic)

wherein

R<sub>3</sub> is hydrogen, halogen, alkyl, cycloalkyl, aryl, alkoxy, cycloalkoxy, aryloxy, alkylthio, cycloalkylthio, arylthio, acyl, sulfonyl, alkylamino, cycloalkylamino, arylamino, acylamino, sulfonamido or alkoxycarbonyl;

R<sub>4</sub> is C<sub>2-4</sub>alkyl, C<sub>3-7</sub>cycloalkyl or C<sub>5-7</sub>heterocycloalkyl;

 $R_5$  and  $R_6$  are independently hydrogen, halogen, cyano,  $R_7$ , -C(O) $R_7$  or -S(O) $_2R_7$  wherein  $R_7$  is -(CR $_8R_9$ ) $_m$ -W-R $_{10}$  in which

R<sub>8</sub> and R<sub>9</sub> are, independently, hydrogen or lower alkyl;

W is a bond, O, S or NR<sub>11</sub> in which

R<sub>14</sub> is hydrogen or lower alkyl;

R<sub>10</sub> is hydrogen, alkyl, cycloalkyl, aryl or heterocyclyl; or R<sub>10</sub>-and R<sub>11</sub>, combined, are alkylene which together with the nitrogen atom-to-which they are attached form a 5-to-7-membered ring;

m is zero or an integer from 1 to 5;

n is zero or an integer of 1 or 2;

or an optical isomer thereof; or a pharmaceutically acceptable salt thereof.

7. (Original) A compound according to Claim 6, wherein

R<sub>4</sub> is cyclopentyl;

n is zero;

or an optical isomer thereof; or a pharmaceutically acceptable salt thereof.

8 - 11. (Cancelled)

- 12. (Withdrawn) A method for the activation of glucokinase activity in mammals which method comprises administering to a mammal in need thereof a therapeutically effective amount of a compound of claim 1.
- 13. (Withdrawn) A method for the prevention and/or treatment of conditions associated with glucokinase activity in mammals which method comprises administering to a mammal in need thereof a therapeutically effective amount of a compound of claim 1.
- 14. (Withdrawn) The method according to claim 13, which method comprises administering said compound in combination with a therapeutically effective amount of insulin, insulin derived mimetic; insulin secretagogue; insulinotropic sulfonylurea receptor ligand; PPAR ligand; insulin sensitizer; biguanide; alpha-glucose inhibitors; GLP-1, GLP-1 analog or mimetic; DPPIV inhibitor; HMG-CoA reductase inhibitor; squaline synthase inhibitor; FXR or LXR ligand; cholestyramine; fibrates; nicotinic acid; or aspirin.
- 15. (Withdrawn) A method for the treatment of impaired glucose tolerance, Type 2 diabetes and obesity which method comprises administering to a mammal in need thereof a therapeutically effective amount of a compound of claim 1.
- 16. (Original) A pharmaceutical composition comprising a therapeutically effective amount of a compound of claims 1 in combination with one or more pharmaceutically acceptable carriers.
- 17. (Original) A pharmaceutical composition comprising a therapeutically effective amount of a compound of claim 1 in combination with a pharmaceutically effective amount of insulin, insulin derived mimetic; insulin secretagogue; insulinotropic sulfonylurea receptor ligand; PPAR ligand; insulin sensitizer; biguanide; alpha-glucose inhibitors; GLP-1, GLP-1 analog or mimetic; DPPIV inhibitor; HMG-CoA reductase inhibitor; squaline synthase inhibitor; FXR or LXR ligand; cholestyramine; fibrates; nicotinic acid; or aspirin.
- 18. (Previously Presented) A paharmaceutical composition according to claim 16 for the treatment of impaired glucose tolerance, Type 2 diabetes and obesity.
- 19 24. (Cancelled)

# 25. (New) A compound according to Claim 6, wherein the compound is: